

TECHNICAL PRODUCT SUBMITTAL

AMICUS LAHP-242LTS AIR SOURCE HEAT PUMP

Heating Data ¹		
Heating Capacity (EN14511)	kW	22.2
Total Power input (EN14511)	kW	5.3
COP (EN14511)	W/W	4.11
Nominal flow rate	m ³ /h	3.872
Pressure drop across the heat pump	kPa	30.2
Design air flow rate	m ³ /h	7808
EcoDesign data ²		
Energy Label Rating Low temperature		A++
SCOP Low Temperature		3.83
Seasonal Efficiency Low temperature	%	150.1
Cooling Data (RV units only) ³		
Cooling Capacity (EN14511)	kW	18.8
Total Power input (EN14511)	kW	6.5
EER (EN14511)	W/W	2.89
Nominal flow rate	m ³ /h	3.183
Pressure drop across the heat pump	kPa	21.3
Design air flow rate	m ³ /h	8500
General		
Refrigerant type		R410A
Compressor Type		Scroll
Number of Compressors		2
Number of Circuits		1
Capacity steps		2
Minimum capacity step	%	50
Electrical Data		
Power supply	V/Ph/Hz	400/3+N/50
Maximum input power	kW	11
Maximum input current standard unit	A	19
Peak input current standard unit	A	63
Peak input current unit with soft start option fitted	A	42
Fuse rating (delayed)	A	32
Optional Hydraulic kit input power	kW	0.4
Optional Hydraulic kit maximum input current	A	1.43
Fans		
Fan type (standard unit)		Axial
Number of fans (standard unit)		2
Air flow rate for design	m ³ /h	9700
Sound power level ²	dB(A)	73
Sound pressure level ³	dB(A)	41

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LAHP-242LTS			Heating OUT						
Water Delivery Temperature			35C	40C	45C	50C	55C	59C	Max outlet
performance data	-10	Heat Output (KW)	11.7	11.5	N/A	N/A	N/A	N/A	40°c
		Efficiency COP	2.0	1.8	N/A	N/A	N/A	N/A	
	-7	Heat Output (KW)	12.6	12.4	N/A	N/A	N/A	N/A	40°c
		Efficiency COP	2.2	2.0	N/A	N/A	N/A	N/A	
	-5	Heat Output (KW)	13.5	13.2	13.1	N/A	N/A	N/A	45°c
		Efficiency COP	2.4	2.1	1.9	N/A	N/A	N/A	
	-4	Heat Output (KW)	14.1	13.9	13.8	N/A	N/A	N/A	45°c
		Efficiency COP	2.5	2.2	2.0	N/A	N/A	N/A	
	-3	Heat Output (KW)	14.8	14.6	14.5	N/A	N/A	N/A	45°c
		Efficiency COP	2.6	2.32	2.09	N/A	N/A	N/A	
	-2	Heat Output (KW)	15.6	15.4	15.2	15.3	N/A	N/A	50°c
		Efficiency COP	2.8	2.5	2.2	2.0	N/A	N/A	
	0	Heat Output (KW)	17.2	16.9	16.7	16.6	N/A	N/A	50°c
		Efficiency COP	3.0	2.7	2.4	2.2	N/A	N/A	
	5	Heat Output (KW)	21.0	20.6	20.4	20.2	20.2	N/A	55°c
		Efficiency COP	3.8	3.4	3.1	2.7	2.5	N/A	
	10	Heat Output (KW)	23.8	23.2	22.8	22.5	22.3	22.3	59°c
		Efficiency COP	4.5	4.0	3.5	3.1	2.8	2.54	
	15	Heat Output (KW)	26.8	26.1	25.5	25.1	24.7	24.6	59°c
		Efficiency COP	5.2	4.6	4.0	3.5	3.1	2.85	
	20	Heat Output (KW)	30.3	29.3	28.5	27.9	27.4	27.2	59°c
		Efficiency COP	6.0	5.2	4.6	4.0	3.5	3.19	

Amicus air to water heat pumps must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of www.lochinvar.ltd.uk

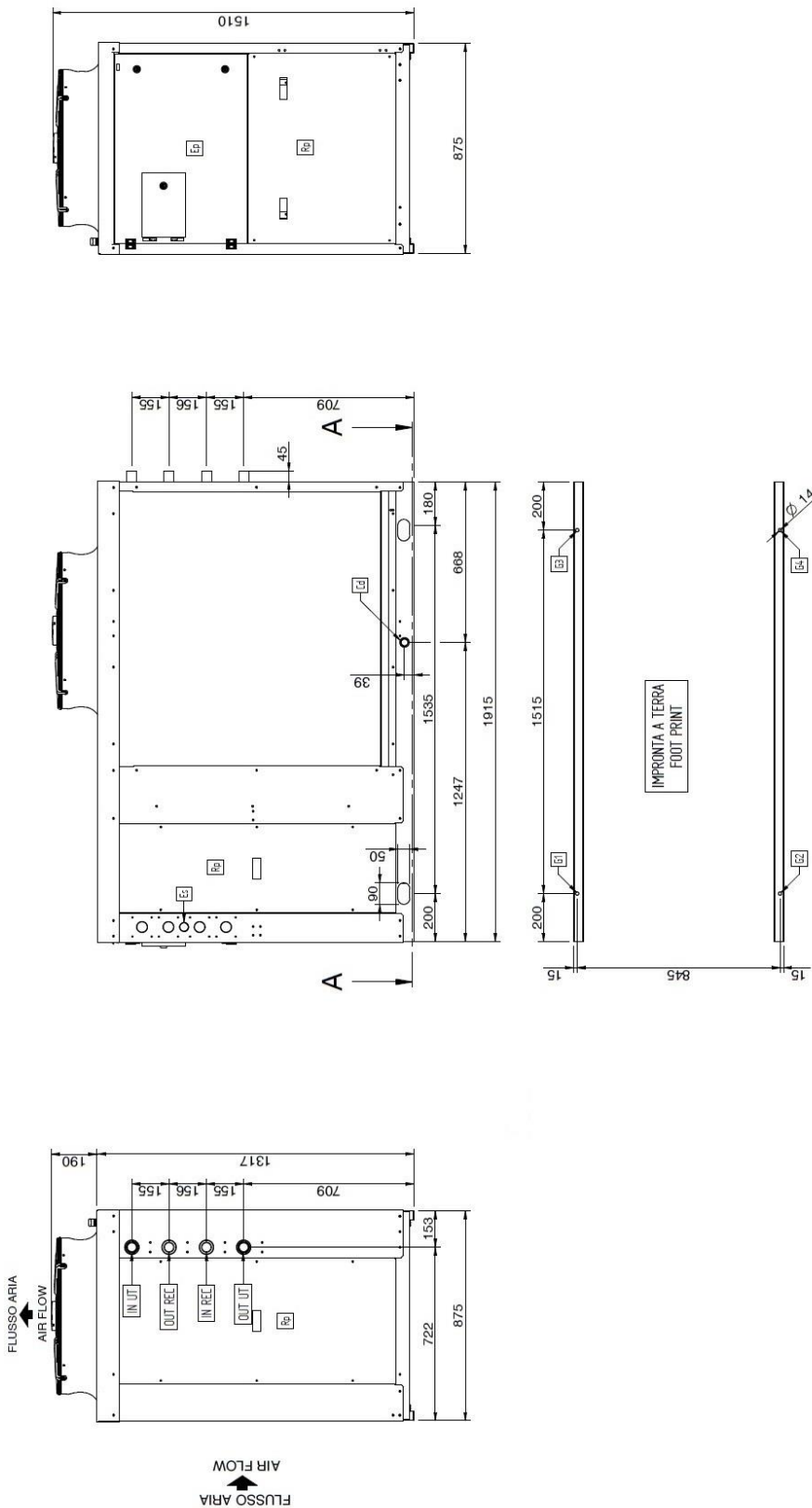
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Model	Octave band (Hz)								Lw		Lp
	63	125	250	500	1K	2K	4K	8K			
	dB	dB	dB	dB	dB	dB	dB	dB	Db	dB(A)	dB(A)
242	86.1	77.3	71.2	69.7	68.6	63.2	59.8	50.7	86.9	78	46
292	87.1	78.3	72.2	70.7	69.6	64.2	60.8	51.7	87.9	79	47
412	87.1	78.3	72.2	70.7	69.6	64.2	60.8	51.7	87.9	74	42
432	88.1	79.3	73.2	71.7	70.6	65.2	61.8	52.7	88.9	80	48
492	89.1	80.3	74.2	72.7	71.6	66.2	62.8	53.7	89.9	79	47
602	89.1	80.3	74.2	72.7	71.6	66.2	62.8	53.7	89.9	80	48
702	90.1	81.3	75.2	73.7	72.6	67.2	63.8	54.7	90.9	81	49
802	91.1	82.3	76.2	74.7	73.6	68.2	64.8	55.7	91.9	82	50
902	95.1	86.3	80.2	78.7	77.6	72.2	68.8	59.7	95.9	86	54
1002	96.1	87.3	81.2	79.7	78.6	73.2	69.8	60.7	96.9	87	55
1202	98.1	89.3	83.2	81.7	80.6	75.2	71.8	62.7	98.9	88	56
1402	99.1	90.3	84.2	82.7	81.6	76.2	72.8	63.7	99.9	89	58
1602	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	89	57
1802	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	90	58
2002	100.1	91.3	85.2	83.7	82.6	77.2	73.8	64.7	100.9	90	58
2302	102.1	93.3	87.2	85.7	84.6	79.2	75.8	66.7	102.9	92	60
2502	104.1	95.3	89.2	87.7	85.6	81.2	77.8	68.7	104.9	93	61
2504	101.1	92.3	86.2	84.7	83.6	78.2	74.8	65.7	101.9	91	59
3004	102.1	93.3	87.2	85.7	84.6	79.2	75.8	66.7	102.9	92	60
3204	103.1	94.3	88.2	86.7	85.6	80.2	76.8	67.7	103.9	92	60
3504	103.1	94.3	88.2	86.7	85.6	80.2	76.8	67.7	103.9	93	61
4004	103.1	94.3	88.2	86.7	85.6	80.2	76.8	67.7	103.9	94	64
4504	105.1	96.3	90.2	88.7	87.6	82.2	78.8	69.7	105.9	96	64
5004	105.1	96.3	90.2	88.7	87.6	82.2	78.8	69.7	105.9	94	62

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	242 ... 292 SAE LS	242 ... 292 HAE LS
Rp	PANNELLO ASPORTABILE - REMOVABLE PANEL	
Ep	QUADRO ELETTRICO - ELECTRICAL PANEL	
Es	INGRESSO ALIMENTAZIONE ELETTRICA - POWER SUPPLY INLET	
Cd	SCARICO CONDENZA - CONDENSATE DRAIN	
IN UT	INGRESSO ACQUA UTENTE - USER WATER INLET	Ø 1" GAS F
OUT UT	USCITA ACQUA UTENTE - USER WATER OUTLET	Ø 1" 1/4 GAS M
IN REC	INGRESSO ACQUA RECUPERO - RECOVERY WATER INLET	Ø 1" 1/4 GAS M
OUT REC	USCITA ACQUA RECUPERO - RECOVERY WATER OUTLET	Ø 1" 1/4 GAS M